

TUGAS PERORANGAN/INDIVIDU

Modul REDUX

Disusun sebagai

MATA KULIAH : Pemrograman Berbasis Framework

Oleh :

Bahrudin Cholid Rizky P

TI-3A / 06



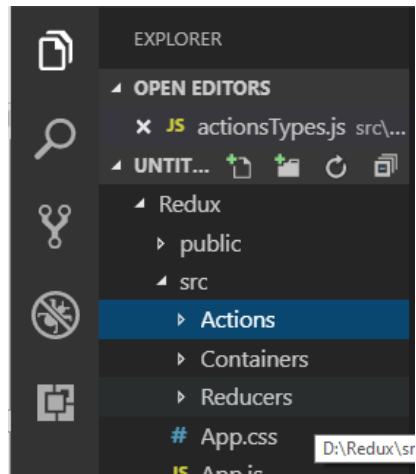
PROGRAM STUDI D-IV T.INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

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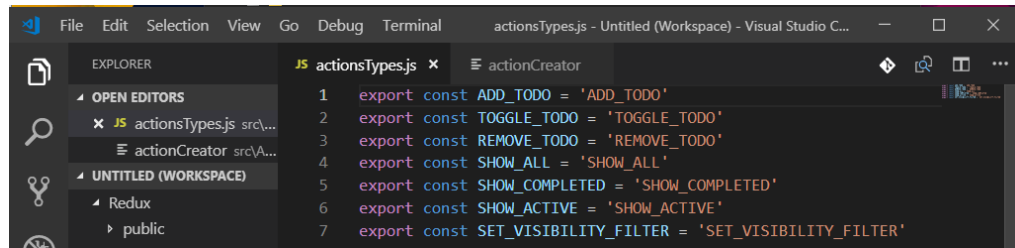
1. Membuat Folder dalam src yaitu Action.



2. Memberi nama actionCreator.

```
JS actionTypes.js  CreateTodo.jsx  actionCreator.jsx x
1  import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER } from
2  './actionTypes'
3
4  let TodoId = 2
5
6  export const addTodo = text => ({
7    type: ADD_TODO,
8    id: TodoId++,
9    text
10 })
11
12 export const deleteTodo = (id) => ({
13   type: REMOVE_TODO,
14   id: id
15 })
16
17 export const toggleTodo = (id) => ({
18   type: TOGGLE_TODO,
19   id: id
20 })
21
22 export const setVisibilityFilter = filter => ({
23   type: SET_VISIBILITY_FILTER,
24   filter
25 })
```

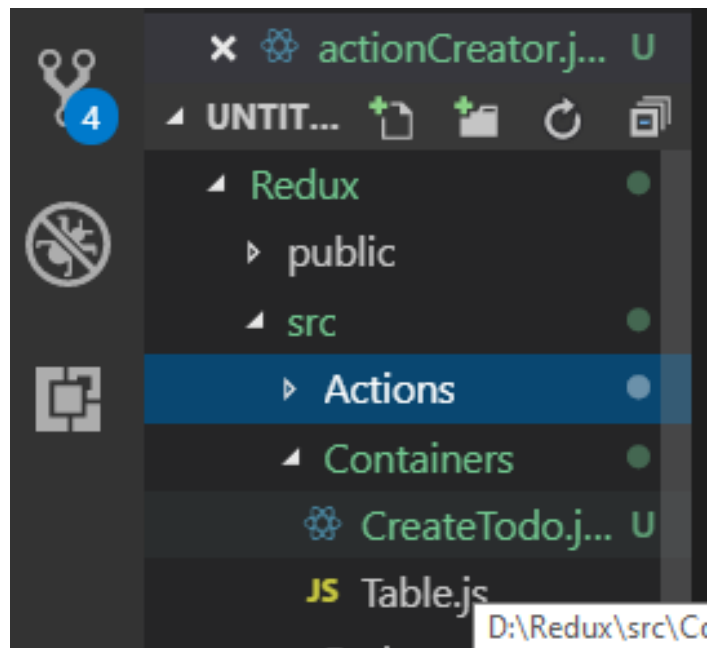
3. Masih dalam Folder Action buat file actionTypes.js



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a project structure with folders 'Redux' and 'public'. The 'actionsTypes.js' file is open in the editor, displaying the following code:

```
1 export const ADD_TODO = 'ADD_TODO'
2 export const TOGGLE_TODO = 'TOGGLE_TODO'
3 export const REMOVE_TODO = 'REMOVE_TODO'
4 export const SHOW_ALL = 'SHOW_ALL'
5 export const SHOW_COMPLETED = 'SHOW_COMPLETED'
6 export const SHOW_ACTIVE = 'SHOW_ACTIVE'
7 export const SET_VISIBILITY_FILTER = 'SET_VISIBILITY_FILTER'
```

4. Buat Folder containers dan membuat file CreateTodo



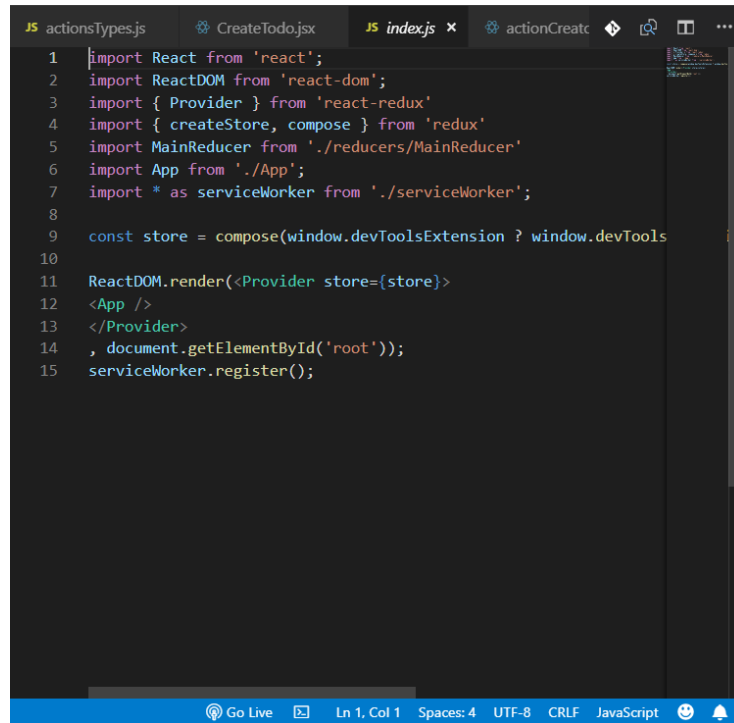
- Isi file CreateTodo

```
JS actionsTypes.js x CreateTodo.jsx x actionCreator.jsx
1 import React, { Component } from 'react'
2 import { connect } from 'react-redux'
3 import { addToDo } from '../actions/actionCreator'
4 import { bindActionCreators } from 'redux'
5
6 class CreateTodo extends Component {
7   constructor(props) {
8     super(props)
9     this.state = {
10       todotext: '',
11     }
12     this.onChangeTodoText = this.onChangeTodoText.bind(this)
13   }
14
15   onChangeTodoText(e) {
16     this.setState({
17       todotext: e.target.value
18     })
19   }
20
21   render() {
22     return (
23       <div className="form-group row">
24         <div className="col-sm-10">
25           <input onChange={this.onChangeTodoText} value={this.state.todotext} type="text"/>
26           <button type="button" onClick={() => this.props.addToDo(this.state.todotext)}>Add</button>
27         </div>
28       </div>
29     )
30   }
31 }
```

5. Buat file Table.js dalam folder containers

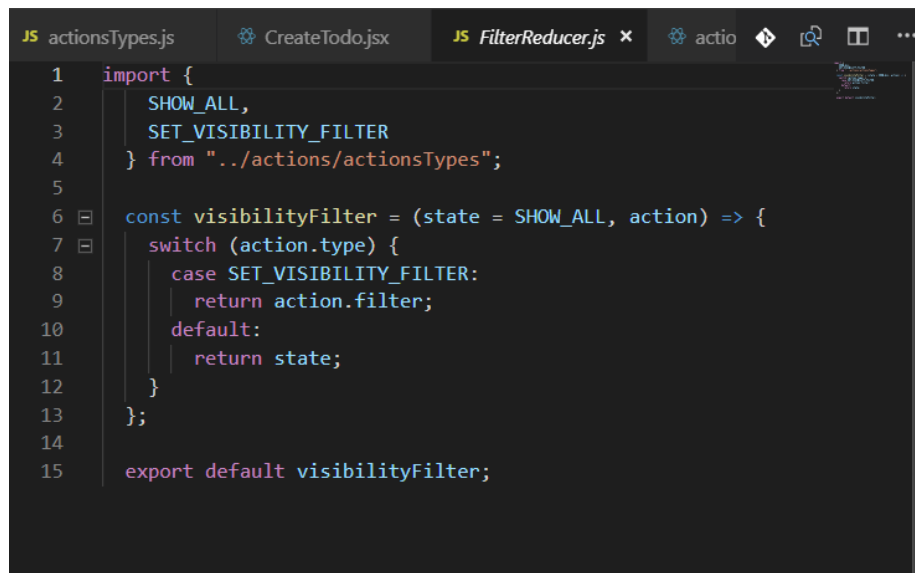
```
JS actionsTypes.js x CreateTodo.jsx x JS Table.js x actionCreator.js
1 import React, { Component } from "react";
2 import { connect } from "react-redux";
3 import {
4   deleteTodo,
5   toggleTodo,
6   setVisibilityFilter
7 } from "../actions/actionCreator";
8 import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../actionTypes";
9 import { bindActionCreators } from "redux";
10
11 class Table extends Component {
12   render() {
13     return (
14       <div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12">
15         <nav style={{ marginTop: "60px" }}>
16           <ol className="breadcrumb">
17             <li>
18               <a href="#">All</a>
19             </li>
20             <li>
21               <a href="#">Completed</a>
22             </li>
23             <li>
24               <a href="#">Active</a>
25             </li>
26           </ol>
27         </nav>
28       </div>
29     )
30   }
31 }
```

6. Edit index.js dengan source code berikut.

A screenshot of a VS Code editor window with the file 'index.js' open. The code imports React, ReactDOM, Provider from 'react-redux', createStore and compose from 'redux', MainReducer from './reducers/MainReducer', App from './App', and a serviceWorker from './serviceWorker'. It then composes the store with the devTools extension and renders the App inside a Provider, mounting it to the root element and registering the service worker.

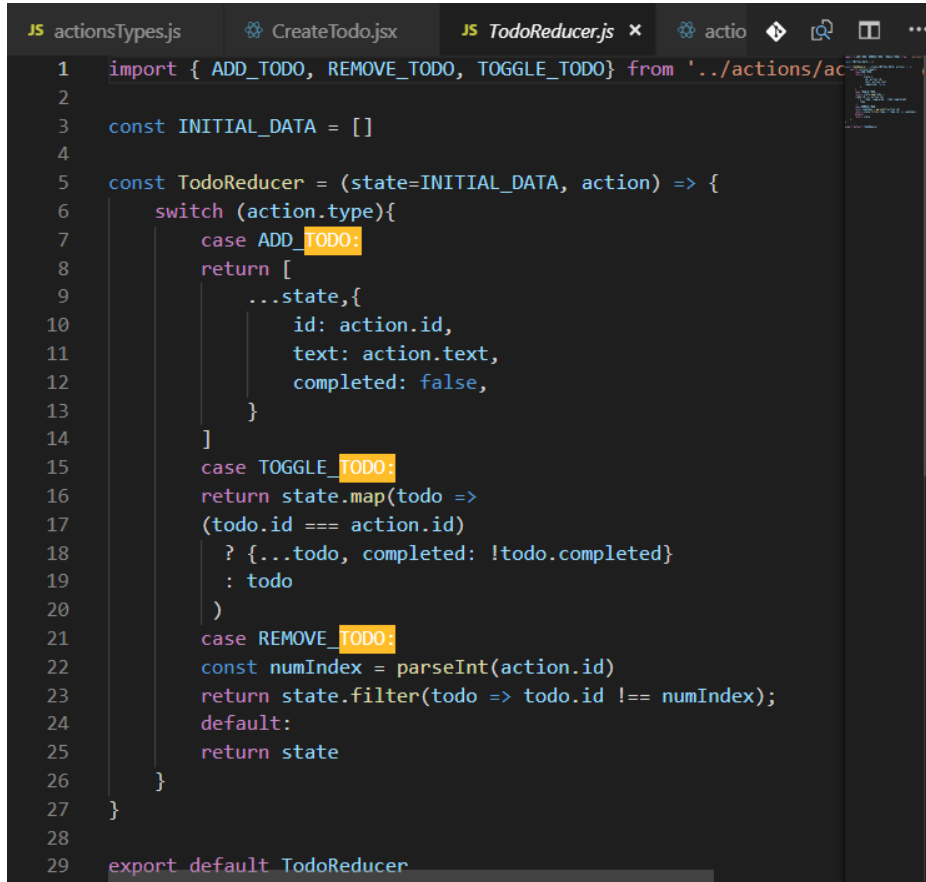
```
1 import React from 'react';
2 import ReactDOM from 'react-dom';
3 import { Provider } from 'react-redux'
4 import { createStore, compose } from 'redux'
5 import MainReducer from './reducers/MainReducer'
6 import App from './App';
7 import * as serviceWorker from './serviceWorker';
8
9 const store = compose(window.devToolsExtension ? window.devTools
10
11 ReactDOM.render(<Provider store={store}>
12 <App />
13 </Provider>
14 , document.getElementById('root'));
15 serviceWorker.register();
```

7. Buat folder dalam src dengan nama reducers dan beri nama file FilterReducer.js .

A screenshot of a VS Code editor window with the file 'FilterReducer.js' open. The code imports SHOW_ALL and SET_VISIBILITY_FILTER from './actions/actionsTypes'. It defines a visibilityFilter function that uses a switch statement to return the action's filter if the action type is SET_VISIBILITY_FILTER, or the current state otherwise. The function is then exported as the default export.

```
1 import {
2   SHOW_ALL,
3   SET_VISIBILITY_FILTER
4 } from "../actions/actionsTypes";
5
6 const visibilityFilter = (state = SHOW_ALL, action) => {
7   switch (action.type) {
8     case SET_VISIBILITY_FILTER:
9       return action.filter;
10    default:
11      return state;
12   }
13 };
14
15 export default visibilityFilter;
```

8. Dalam folder reducers buatlah file dengan nama TodoReducer.js



```
1 import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from '../actions/actionsTypes.js'
2
3 const INITIAL_DATA = []
4
5 const TodoReducer = (state=INITIAL_DATA, action) => {
6   switch (action.type){
7     case ADD_TODO:
8       return [
9         ...state,{
10           id: action.id,
11           text: action.text,
12           completed: false,
13         }
14       ]
15     case TOGGLE_TODO:
16       return state.map(todo =>
17         (todo.id === action.id)
18         ? {...todo, completed: !todo.completed}
19         : todo
20       )
21     case REMOVE_TODO:
22       const numIndex = parseInt(action.id)
23       return state.filter(todo => todo.id !== numIndex);
24     default:
25       return state
26   }
27 }
28
29 export default TodoReducer
```

9. Membuat file dengan nama MainReducer.js kemudian simpan.\

```
JS actionTypes.js  CreateTodo.jsx  JS MainReducer.js x  actic  🔍  📄  ...  
1  import { combineReducers } from 'redux'  
2  import todos from './TodoReducer'  
3  import visibilityFilter from './FilterReducer'  
4  
5  export default combineReducers({  
6    todos,  
7    visibilityFilter  
8  })
```

10. Run

